

2003

**Virginia Department of Transportation
Daily Traffic Volume Estimates
Including Vehicle Classification Estimates**

where available

Special Locality Report

106

City of Colonial Heights

Prepared By

**Virginia Department of Transportation
Mobility Management Division**

In Cooperation With

**U.S. Department of Transportation
Federal Highway Administration**

Virginia Department of Transportation
Mobility Management Division
Traffic Monitoring Section

The Virginia Department of Transportation (VDOT) conducts a program where traffic count data are gathered from sensors in or along streets and highways and other sources. From these data, estimates of the average number of vehicles that traveled each segment of road are calculated. VDOT periodically publishes booklets listing these estimates.

One of these booklets, titled "Average Daily Traffic Volumes with Vehicle Classification Data, on Interstate, Arterial and Primary Routes" includes a list of each Interstate and Primary highway segment with the estimated Annual Average Daily Traffic (AADT) for that segment. AADT is the total annual traffic estimate divided by the number of days in the year. This booklet also includes information such as estimates of the percentage of the AADT made up by 6 different vehicle types, ranging from cars to double trailer trucks; estimated Annual Average Weekday Traffic (AAWDT), which is the number of vehicles estimated to have traveled the segment of highway during a 24 hour weekday averaged over the year; as well as Peak Hour and Peak Direction factors used by planners to formulate design criteria.

In addition to the Primary and Interstate publication, one hundred books are published periodically, one for each of 100 areas across the state defined by VDOT for record-keeping purposes. These books include traffic volume estimates for roads within the county, cities, and towns within the area. These books are titled "Daily Traffic Volumes Including Vehicle Classification Estimates, where available; Jurisdiction Report numbers 00 through 99".

Also available are a number of reports summarizing the average Vehicle Miles Traveled (VMT) in selected jurisdictions and other categories of highways. There are many different ways to present traffic volume summary information. Because the user determines the value of each presentation, the reports have been redesigned based on user requests and feedback. The people at VDOT Mobility Management's Traffic Monitoring Section who produce these books welcome requests for other helpful ways of presenting the summary information.

A compact disc (CD) is available that includes files in the Adobe® Portable Document Format (PDF) that can be displayed, searched, and printed using common desktop computer equipment. The CD includes the publications described above as well as a number of other reports, including specialized VMT summaries and smaller AADT reports for each city and town separately.

Publication Notes

Parallel Roads

For road inventory and management purposes, some roadways are counted separately by direction and have separately published traffic estimates for each direction of travel. Examples of such roadways are the interstate system and routes with separated facilities and (usually) one-way traffic facilities in urban areas. In these publications, they are referred to as parallel roads. As a convenience for the users of the publication, the listing for segments of roads with parallel segments are published with both the traffic estimates for their own direction of travel (e.g. I-95 Northbound) as well as the estimate of the total of all traffic on the same route including parallel roadways (all directions of I-95). The publication will have a “Combined Traffic Estimates for Parallel Roadways on this Route” or “Combined Traffic” identifiers for the combined direction of travel estimates.

Roadways such as I-395 with a North segment, a South segment and a separate Reversible lane segment will have the estimate for more than two parallel roadways included in the entire combined traffic estimate.

Some routes have very complicated paths through cities and towns. These parallel paths may be too complex to allow a relationship between nearby sections of the opposite direction on the same route. In this case, to indicate that the traffic estimates for such a road segment may not include all directions of traffic on that route, the line that would list the combined values will indicate “NA” for not available.

VDOT’s traffic monitoring program includes more than 100,000 segments of roads and highways ranging from several mile sections of Interstate highways to very short sections of city streets. Due to problems experienced obtaining some traffic count data, and the level of quality necessary to maintain confidence in the data, no estimate is currently available for some segments of roadway. These segments are included in the publications indicating “NA” for not available. It is the intention of the VDOT’s Mobility Management Traffic Monitoring group to obtain the data necessary and to report traffic volume estimates on all road segments included in these publications.

Many of the road segments in this program are local secondary roads. The amount and detail of data collected on these roads are not as great as the data collected on higher volume roads. The vehicle classification, average weekday traffic volumes, and the theoretical design hour traffic volumes are not calculated for these roads. The publications indicate “NA” for the information that is not available.

This publication is based on a traffic monitoring program initiated in 1997. Because the data collection techniques and statistical evaluation processes are different than those used in previous years, comparison with previous publications may be misleading.

Glossary of Terms:

Route: The Route Number assigned to this segment of roadway with the master inventory route number if this is an overlapping route, with official street or highway name if available.

Length: Length of the traffic segment in miles.

AADT: Annual Average Daily Traffic. The estimate of typical daily traffic on a road segment for all days of the week, Sunday through Saturday, over the period of one year.

QA: Quality of AADT:

- A Average of Complete Continuous Count Data
- B Average of Selected Continuous Count Data
- F Factored Short Term Traffic Count Data
- G Factored Short Term Traffic Count Data with Growth Element
- H Historical Estimate
- M Manual Uncounted Estimate
- N AADT of Similar Neighboring Traffic Link
- O Provided By External Source
- R Raw Traffic Count, Unfactored

4Tire: Percentage of the traffic volume made up of motorcycles, passenger cars, vans and pickup trucks.

Bus: Percentage of the traffic volume made up of busses.

2Axle Truck: Percentage of the traffic volume made up of 2 axle single unit trucks (not including pickups and vans).

3+Axle Truck: Percentage of the traffic volume made up of single unit trucks with three or more axles.

1Trail Truck: Percentage of the traffic volume made up of units with a single trailer.

2Trail Truck: Percentage of the traffic volume made up of units with more than one trailer.

QC: Quality of Classification Data:

- A Average of Complete Continuous Count Data
- B Average of Selected Continuous Count Data
- C Short Term Classified Traffic Count Data
- F Factored Short Term Traffic Count Data
- H Historical Estimate
- M Mass Collective Average
- N Classification Estimates of Similar Neighboring Traffic Link

K Factor: The estimate of the portion of the traffic volume traveling during the peak hour or design hour.

QK: Quality of the Peak Hour estimate:

- A Factor based on 30th Highest Hour Observed During at least 250 days of Continuous Traffic Data
- B Factor based on other Hour Observed During Less than 250 days of Continuous Traffic Data
- F Factor based on Highest Hour Collected at in a 48 Hour Weekday Period
- M Factor based on Manual Estimate of design hour
- N Peak Hour Factor of Similar Neighboring Traffic Link
- O Provided by External Source

Dir Factor: The estimate of the portion of the traffic volume traveling in the peak direction during the peak hour..

AAWDT: Average Annual Weekday Traffic. The estimate of typical traffic over the period of one year for the days between Monday through Thursday inclusive.

QW: Quality of AAWDT:

- A Average of Complete Continuous Count Data
- B Average of Selected Continuous Count Data
- F Factored Short Term Traffic Count Data
- G Factored Short Term Traffic Count Data with Growth Element
- M Manual Uncounted Estimate
- N AAWDT of Similar Neighboring Traffic Link
- O Provided by External Source

Year: Year for which the published values are appropriate. If the Quality of AADT (QA) is "R", the year is the year that the raw traffic count was collected, and if available,

Route Shield Legend

Route Systems

North 	Interstate Route	Traffic volume data for Interstate Routes and some other routes are reported separately by direction, as well as combined.
	US Route	
	Virginia State Route	
	Secondary Route	

Special Routes

Bus 	Bus - Business Route
	Bypas - Bypass Route
	Truck - Truck Route
ALT 	ALT - Alternate Route
	Wve - Wye Route connector
	P - Parallel Route; Southbound or Westbound direction lanes of a numbered route where they are on a different road facility than the other direction.
	The VDOT Maintenance Jurisdiction number is displayed below the Secondary Route Number if the Maintenance Jurisdiction is different than the jurisdiction in the title of the report.

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2003
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City of Colonial Heights

Route		Length	AADT	QA	4Tire	Bus	Truck				QC	K Factor	QK	Dir Factor	AAWDT	QW	Year
							2Axle	3+Axle	1Trail	2Trail							
City of Colonial Heights																	
1	Boulevard	0.04	9800	F	From	NCL Petersburg					F	0.086	F	0.610	10000	F	2003
					To		1%	0%	0%	0%							
1	Boulevard	0.49	10000	F	From	Washington Ave					F	0.088	F	0.579	11000	F	2003
					To		1%	0%	0%	0%							
1	Boulevard	0.40	23000	F	From	Dupuy Ave					F	0.087	F	0.504	24000	F	2003
					To		1%	0%	0%	0%							
1	Boulevard	0.33	23000	A	From	Westover Ave					C	0.099	A	0.526	25000	A	2003
					To		1%	0%	0%	0%							
1	Boulevard	0.26	26000	F	From	Branders Bridge Rd					F	0.086	F	0.505	27000	F	2003
					To		1%	0%	0%	0%							
1	Boulevard	0.74	24000	F	From	Temple Ave					F	0.093	F	0.544	27000	F	2003
					To		1%	0%	0%	0%							
1	Boulevard	0.17	23000	F	From	Lakeview Ave					C	0.088	F	0.502	25000	F	2003
					To		95%	0%	1%	3%							
1	Boulevard	0.19	28000	F	From	Ellerslie Ave					F	0.088	F	0.505	30000	F	2003
					To		98%	0%	1%	0%							
1	Boulevard	0.62	26000	F	From	Sherwood Ave					F	0.089	F	0.520	28000	F	2003
					To		98%	0%	1%	0%							
North 95		0.21	50000	G	From	NCL Petersburg					F	0.082	F		49000	G	2003
					To		89%	1%	1%	1%							
Combined Traffic:			93000	G			1%	1%	8%	0%	F	0.08	F	0.527	91000	G	
North 95		0.98	40000	F	From	Southpark Blvd					F	0.079	F		40000	F	2003
					To		89%	1%	1%	1%							
Combined Traffic:			77000	F			1%	1%	8%	0%	F	NA			76000	F	
North 95		2.38	43000	A	From	SR 144 Temple Ave					C	0.091	A		43000	A	2003
					To		89%	1%	1%	1%							
Combined Traffic:			87000	A			1%	1%	8%	0%	C	0.089	A	0.548	86000	A	
South 95		0.37	43000	G	From	NCL Petersburg					F	0.079	F		42000	G	2003
					To		89%	1%	1%	1%							
Combined Traffic:			93000	G			1%	1%	8%	0%	F	0.08	F	0.527	91000	G	
South 95		1.05	37000	F	From	Southpark Blvd					F	0.079	F		37000	F	2003
					To		89%	1%	1%	1%							
Combined Traffic:			77000	F			1%	1%	8%	0%	F	NA			76000	F	
South 95		2.15	44000	A	From	SR 144 Temple Ave					C	0.095	A		43000	A	2003
					To		89%	1%	1%	1%							
Combined Traffic:			87000	A			1%	1%	8%	0%	C	0.089	A	0.548	86000	A	
144	Temple Ave	0.93	27000	F	From	ECL Colonial Heights					F	0.093	F	0.605	27000	F	2003
					To		98%	0%	1%	1%							
144	Temple Ave	0.37	31000	F	From	Conduit Rd					F	0.086	F	0.541	32000	F	2003
					To		98%	0%	1%	1%							
144	Temple Ave	0.50	26000	F	From	I-95					F	0.087	F	0.538	27000	F	2003
					To		98%	0%	1%	1%							
144 1	Boulevard	0.74	24000	F	From	US 1 Boulevard					F	0.093	F	0.544	27000	F	2003
					To		98%	0%	1%	0%							
144 1	Boulevard	0.17	23000	F	From	Lakeview Ave					C	0.088	F	0.502	25000	F	2003
					To		95%	0%	1%	3%							
144 1	Boulevard				From	Ellerslie Ave											
					To												

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Route		Length	AADT	QA	4Tire	Bus	-----Truck-----				QC	K Factor	QK	Dir Factor	AAWDT	QW	Year	
							2Axle	3+Axle	1Trail	2Trail								
City of Colonial Heights																		
					From:	Ellerslie Ave												
144	1	Boulevard	0.19	28000	F	98%	0%	1%	0%	0%	0%	F	0.088	F	0.505	30000	F	2003
					To:	Sherwood Ave												
144	1	Boulevard	0.62	26000	F	98%	0%	1%	0%	0%	0%	F	0.089	F	0.520	28000	F	2003
					To:	NCL Colonial Heights												
					From:	NCL Petersburg												
301	1	Boulevard	0.04	9800	F	98%	0%	1%	0%	0%	0%	F	0.086	F	0.610	10000	F	2003
					To:	Washington Ave												
301	1	Boulevard	0.49	10000	F	98%	0%	1%	0%	0%	0%	F	0.088	F	0.579	11000	F	2003
					To:	Dupuy Ave												
301	1	Boulevard	0.40	23000	F	98%	0%	1%	0%	0%	0%	F	0.087	F	0.504	24000	F	2003
					To:	Lynchburg Ave												
					From:	Westover Ave												
301	1	Boulevard	0.33	23000	A	98%	0%	1%	0%	0%	0%	C	0.099	A	0.526	25000	A	2003
					To:	Branders Bridge Rd												
301	1	Boulevard	0.26	26000	F	98%	0%	1%	0%	0%	0%	F	0.086	F	0.505	27000	F	2003
					To:	Temple Ave												
301	1	Boulevard	0.74	24000	F	98%	0%	1%	0%	0%	0%	F	0.093	F	0.544	27000	F	2003
					To:	Lakeview Ave												
301	1	Boulevard	0.17	23000	F	95%	0%	1%	3%	1%	0%	C	0.088	F	0.502	25000	F	2003
					To:	Ellerslie Ave												
301	1	Boulevard	0.19	28000	F	98%	0%	1%	0%	0%	0%	F	0.088	F	0.505	30000	F	2003
					To:	Sherwood Ave												
					To:	NCL Colonial Heights												
					From:	Southpark Blvd												
1		C H Dimmock Pkwy	0.69	12000	F	99%	0%	1%	0%	0%	0%	F	0.092	F	0.526	13000	F	2003
					To:	Temple Ave												
					From:	NB Ramp To I-95												
2		Southpark Blvd	0.31	21000	F	99%	0%	1%	0%	0%	0%	F	0.093	F	0.506	23000	F	2003
					To:	South Ave												
2		Southpark Blvd	0.25	21000	F	99%	0%	1%	0%	0%	0%	F	0.094	F	0.532	23000	F	2003
					To:	C H Dimmock Pkwy												
					From:	Southpark Circle												
2		Southpark Blvd	0.05	12000	F	99%	0%	1%	0%	0%	0%	F	0.099	F	0.585	13000	F	2003
					To:	Temple Ave												
					From:	Forestview Dr												
4		Sherwood Dr	0.25	3900	F	99%	0%	1%	0%	0%	0%	C	0.1	F	0.586	4300	F	2003
					To:	US 1 Boulevard												
					From:	WCL Colonial Heights												
9020		Dupuy Ave	0.42	15000	F	98%	0%	0%	0%	0%	0%	C	0.087	F	0.512	16000	F	2003
					To:	US 1 Boulevard												
					From:	US 1 Boulevard												
9024		Westover Ave	0.66	6300	F	99%	0%	0%	0%	0%	0%	C	0.097	F	0.55	6900	F	2003
					To:	Conduit Rd												
					From:	WCL Colonial Heights												
9026		Branders Bridge Road	0.30	5200	F	99%	0%	0%	0%	0%	0%	C	0.098	F	0.563	5700	F	2003
					To:	US 1 Boulevard												
					From:	WCL Colonial Heights												
9030		Lakeview Ave	0.85	8200	F	99%	0%	0%	0%	0%	0%	C	0.096	F	0.625	8900	F	2003
					To:	US 1 Boulevard												
					From:	US 1 Boulevard												
9032		E Ellerslie Ave	1.15	17000	F	99%	0%	0%	0%	0%	0%	C	0.139	F	0.528	19000	F	2003
					To:	Conduit Rd												

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						2Axle	3+Axle	1Trail	2Trail								
City of Colonial Heights																	
(9035) Washington Ave	0.37	420	F	From:	US 1 Boulevard				C	0.125	F	0.6	460	F	2003		
				To:	Stuart Ave												
(9035) Stuart Ave	0.10	860	F	From:	Washington Ave				C	0.117	F	0.570	940	F	2003		
				To:	Bristol Ave												
(9035) Stuart Ave	0.05	1700	F	From:	97%	1%	1%	0%	1%	0%	F	0.115	F	0.530	1800	F	2003
				To:	Ivey Ave												
(9035) Conduit Rd	0.24	2300	F	From:	97%	1%	1%	0%	1%	0%	F	0.121	F	0.563	2600	F	2003
				To:	Lynchburg Ave												
(9035) Conduit Rd	0.22	5300	F	From:	97%	1%	1%	0%	1%	0%	C	0.107	F	0.512	5800	F	2003
				To:	Westover Ave												
(9035) Conduit Rd	0.47	9700	F	From:	97%	1%	1%	0%	1%	0%	F	0.101	F	0.500	11000	F	2003
				To:	Temple Ave												
(9035) Conduit Rd	0.54	21000	F	From:	98%	1%	1%	0%	0%	0%	F	0.095	F	0.61	23000	F	2003
				To:	E Ellerslie Ave												
(9035) Conduit Rd	2.02	4600	F	From:	98%	1%	1%	0%	0%	0%	C	0.114	F	0.615	5000	F	2003
				To:	Dunston Point Pkwy												
(9035) Dunston Point Pkwy	0.28	630	F	From:	98%	1%	1%	0%	0%	0%	F	0.106	F	0.517	690	F	2003
				To:	Comstock Drive												
(9037) Hamilton Ave	0.67	490	F	From:	98%	1%	1%	0%	0%	0%	C	0.116	F	0.563	540	F	2003
				To:	E Westover Ave												
(9037) Hamilton Ave	0.55	2200	F	From:	98%	1%	1%	0%	0%	0%	F	0.099	F	0.511	2400	F	2003
				To:	Temple Ave												
(9066) Lynchburg Ave	0.65	1200	F	From:	99%	1%	0%	0%	0%	0%	C	0.098	F	0.507	1400	F	2003
				To:	Conduit Rd												
Covington Road		580	F	From:	99%	0%	0%	0%	1%	0%	C	0.103	F	0.525	580	F	2003
				To:	Appomatox Dr												
Elmwood Drive		590	F	From:	100%	0%	0%	0%	0%	0%	C	0.096	F	0.746	590	F	2003
				To:	Cedarwood Ave												
Forestview Dr		360	F	From:	98%	1%	1%	0%	0%	0%	C	0.123	F	0.688	360	F	2003
				To:	Brookhill Ave												
James Ave.		1600	F	From:	US 1					0.116	F		1800	F	2003		
				To:	Hamilton Ave												
Lafayette Ave		350	F	From:	US 1					0.127	F		380	F	2003		
				To:	Danville Ave												
Longhorn Avenue		790	F	From:	98%	0%	1%	0%	0%	0%	C	0.098	F	0.558	790	F	2003
				To:	Honeycreek Ct												
Maple Avenue		1300	F	From:	98%	0%	1%	0%	0%	0%	C	0.089	F	0.560	1300	F	2003
				To:	Cottage Grove Ave												
Richmond Ave		570	F	From:	US 1					0.11	F		630	F	2003		
				To:	Hill Pl.												
Riverview Road		150	F	From:	Roslyn Ave					0.12	F	0.6	150	F	2003		
				To:	Pinehurst Ave												

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						2Axle	3+Axle	1Trail	2Trail							
City of Colonial Heights																
Snead Ave.		1300	F	From	Walnut Ave					0.104	F		1400	F	2003	
				To	MacArther Ave											
Swift Creek Lane		840	F	From	Flintlock Dr				C	0.096	F	0.561	840	F	2003	
				To	Biltmore Dr											
W. Rosylyn Ave		540	F	From	Conduit Rd					0.114	F	0.585	590	F	2003	
				To	Washington Ave											
Walnut Ave		210	F	From	Hamilton Ave					0.141	F		230	F	2003	
				To	Elk Ave											
White Bank Road		420	F	From	Moose Ave				C	0.207	F	0.990	420	F	2003	
				To	Dunston Point Pkwy											
Wrights Ave		510	F	From	Meridian Ave					0.121	F		560	F	2003	
				To	Battery Pl											